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## INFORMATION REPORT

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SUBJECT Okula Optical Workshop in Prague

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1. The Okula grinding workshop in Prague VII, Pristavni 3 (formerly J. H. Richter) is part of Okula National Corporation which produces optical instruments. The research department of Okula is located in Prague II, Vlasislavova 8. The workshop employs about 50 workers. It is managed by Rudolf Zeman, a Communist, who was formerly the manager of J.H. Richter Company. The chairman of the Communist Party organization in the plant is his brother, Karel Zeman, a fanatical Communist.
2. Most of the machines in the Okula workshop are of Czech manufacture. They include:
  - a. One grinder with four spindles for grinding lenses and prisms
  - b. One grinder with four spindles for precision grinding
  - c. Three polishing machines with four spindles
  - d. Two polishing machines with six spindles
  - e. Two small automatic machines (sic)
  - f. One centering grinder for lenses (centrovacka)
  - g. One collimator
  - h. One roughing machine (hrubovaci stroje)
  - i. One lathe for grooving lenses (drazky)
  - j. Two new Wolman automatic lathes
  - k. One small glass cutter

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3. The workshop produces prisms for the Fritscher plant in Prague, Vinohrady, parabolic lenses and parabolic mirrors for CKD in Prague, Vysocany, sound adapters for 16 mm sound motion picture cameras, pressed camera lenses, and micro-mirrors (sic) produced for Kment in Hradek nad Orlicí in February 1949. These mirrors were made of a special crystal glass, and were 1.2 mm long, 1.0 mm wide and 0.8 mm thick. One side was ground opaque; the other was polished and nickel-plated.
4. The micro-mirrors were made from glass squares 5 cm square and 2 mm thick which were cut into smaller squares of the correct dimensions by means of a diamond wheel. The squares were piled one on another, warmed and temporarily cemented together. After cooling the pile, the four edges were ground until the glasses were perfectly square. Then the pile was again warmed and the glasses separated and mounted individually on a flat plate. Thus they were ground to the required thickness and polished. These accurately ground and polished pieces of glass were forwarded to Kment where they were used to make mirrors for a photographic radiation recorder for cosmic or radioactive materials. In this recorder the mirrors were attached one above another to fine platinum suspensions.\*

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\*  Comment: This was apparently a multiple recorder, the mirrors acting as the moving part of the galvanometer.

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